

What is claimed is:

1 1. A semiconductor memory card for storing audio information with
2 corresponding text information and type information, the type
3 information indicating a type of the text information, wherein the
4 type is classified into at least (a), (b), and (c) in which the
5 text information respectively includes a 1-byte character code
6 sequence, a 2-byte character code sequence, and a 1-byte character
7 code sequence and a 2-byte character code sequence.

1 2. The semiconductor memory card of Claim 1, wherein
2 the type information includes a first attribute and a
3 second attribute, the first attribute showing whether the text
4 information includes a 1-byte character code sequence, and the
5 second attribute showing whether the text information includes a
6 2-byte character code sequence, and
7 the first attribute, the second attribute, and a
8 combination of the two attributes respectively indicate the types
9 (a), (b), and (c).

1 3. The semiconductor memory card of Claim 1, wherein
2 the text information is stored in a text storage area,
3 which is a part of the semiconductor memory card, consecutively
4 from the start of the text storage area,
5 the type information is a first terminated code and a
6 second terminated code which are included in the text

7 information,

8 the first terminated code is stored at the start of the
9 text storage area when the text information stored in the text
10 storage area does not include a 1-byte character code sequence,
11 and is stored in the text storage area at the end of a 1-byte
12 character code sequence when the text information stored in the
13 text storage area includes the 1-byte character code sequence,

14 the second terminated code is stored in the text storage
15 area at a position immediately after the first terminated code
16 when the text information stored in the text storage area does not
17 include a 2-byte character code sequence, and is stored in the
18 text storage area at the end of a 2-byte character code sequence
19 when the text information stored in the text storage area includes
20 the 2-byte character code sequence, and

21 combinations of what is stored at the start of the text
22 storage area, a storage position of the first terminated code, and
23 a storage position of the second terminated code indicate the
24 types (a), (b), and (c).

1 4. The semiconductor memory card of Claim 1, wherein

2 the 1-byte character code sequence includes pairs of a
3 1-byte tag and a plurality of 1-byte character codes, the 1-byte
4 tag indicating a name of an item, and the plurality of 1-byte
5 character codes indicating a content of the item, and

6 the 2-byte character code sequence includes pairs of a

7 2-byte tag and a plurality of 2-byte character codes, the 2-byte
8 tag indicating a name of an item, and the plurality of 2-byte
9 character codes indicating a content of the item.

1 5. A recording apparatus for recording audio information onto a
2 semiconductor memory card which can be inserted/removed into/from
3 the recording apparatus, the recording apparatus comprising:

4 a first recording means for recording the audio
5 information onto the semiconductor memory card; and

6 a second recording means for recording text information
7 and type information both corresponding to the audio information
8 onto the semiconductor memory card, wherein

9 the type information indicates a type of the text
10 information, the type being classified into at least (a), (b), and
11 (c) in which the text information respectively includes a 1-byte
12 character code sequence, a 2-byte character code sequence, and a
13 1-byte character code sequence and a 2-byte character code
14 sequence.

1 6. The recording apparatus of Claim 5, wherein

2 the second recording means records a first attribute and
3 a second attribute as the type information, the first attribute
4 showing whether the text information includes a 1-byte character
5 code sequence, and the second attribute showing whether the text
6 information includes a 2-byte character code sequence, and the

7 first attribute, the second attribute, and a combination of the
8 first attribute and the second attribute indicating the types (a),
9 (b), and (c), respectively.

1 7. The recording apparatus of Claim 5, wherein

2 the second recording means records the text information
3 and the type information onto a consecutive area located at the
4 start of a text storage area, the type information being a first
5 terminated code and a second terminated code,

6 the second recording means records the first terminated
7 code at the start of the text storage area when not recording a 1-
8 byte character code sequence onto the text storage area, and
9 records the first terminated code at the end of a 1-byte character
10 code sequence when recording the 1-byte character code sequence
11 onto the text storage area,

12 the second recording means records the second terminated
13 code immediately after the first terminated code when not
14 recording a 2-byte character code sequence onto the text storage
15 area, and records the first terminated code at the end of a 2-byte
16 character code sequence when recording the 2-byte character code
17 sequence onto the text storage area, and

18 combinations of what is stored at the start of the text
19 storage area, a storage position of the first terminated code, and
20 a storage position of the second terminated code indicate the
21 types (a), (b), and (c).

1 8. The recording apparatus of Claim 5, wherein

2 the 1-byte character code sequence includes pairs of a
3 1-byte tag and a plurality of 1-byte character codes, the 1-byte
4 tag indicating a name of an item, and the plurality of 1-byte
5 character codes indicating a content of the item, and

6 the 2-byte character code sequence includes pairs of a
7 2-byte tag and a plurality of 2-byte character codes, the 2-byte
8 tag indicating a name of an item, and the plurality of 2-byte
9 character codes indicating a content of the item.

1 9. A reproducing apparatus for reading out audio information from
2 a semiconductor memory card which can be inserted/removed
3 into/from the reproducing apparatus and reproducing the read-out
4 audio information, the reproducing apparatus comprising:

5 a read-out means for reading out the audio information,
6 text information, and type information from the semiconductor
7 memory card, wherein the type information indicates a type of the
8 text information, the type being classified into at least (a),
9 (b), and (c) in which the text information respectively includes
10 a 1-byte character code sequence, a 2-byte character code
11 sequence, and a 1-byte character code sequence and a 2-byte
12 character code sequence;

13 a reproducing means for reproducing the read-out audio
14 information; and

15 a control means for controlling a display unit to
16 display either a 1-byte character code sequence or a 2-byte
17 character code sequence in accordance with the read-out type
18 information.

1 10. The reproducing apparatus of Claim 9, wherein

2 the type information includes a first attribute and a
3 second attribute, the first attribute showing whether the text
4 information includes a 1-byte character code sequence, and the
5 second attribute showing whether the text information includes a
6 2-byte character code sequence, and

7 the control means determines a type of the text
8 information based on the first attribute and the second attribute
9 included in the type information, and allows the display unit to
10 display a character code sequence corresponding to the determined
11 type of the text information.

1 11. The recording apparatus of Claim 9, wherein

2 the text information is stored in a text storage area
3 consecutively from the start of the text storage area,

4 the type information is a first terminated code and a
5 second terminated code which are included the text information,

6 the first terminated code is stored at the start of the
7 text storage area when the text information stored in the text
8 storage area does not include a 1-byte character code sequence,

9 and is stored in the text storage area at the end of a 1-byte
10 character code sequence when the text information stored in the
11 text storage area includes the 1-byte character code sequence,
12 the second terminated code is stored in the text storage
13 area at a position immediately after the first terminated code
14 when the text information stored in the text storage area does not
15 include a 2-byte character code sequence, and is stored in the
16 text storage area at the end of a 2-byte character code sequence
17 when the text information stored in the text storage area includes
18 the 2-byte character code sequence, and
19 combinations of what is stored at the start of the text
20 storage area, a storage position of the first terminated code, and
21 a storage position of the second terminated code indicate the
22 types (a), (b), and (c).

1 12. The reproducing apparatus of Claim 9, wherein

2 the 1-byte character code sequence includes pairs of a
3 1-byte tag and a plurality of 1-byte character codes, the 1-byte
4 tag indicating a name of an item, and the plurality of 1-byte
5 character codes indicating a content of the item, and

6 the 2-byte character code sequence includes pairs of a
7 2-byte tag and a plurality of 2-byte character codes, the 2-byte
8 tag indicating a name of an item, and the plurality of 2-byte
9 character codes indicating a content of the item.